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PTO/SB/21 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031

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| | | | |
|---|----------------------|------------------------|-----------------|
| TRANSMITTAL FORM (to be used for all correspondence after initial filing) | Application Number | 10/660,122 | |
| | Filing Date | 09/11/2003 | |
| | First Named Inventor | David J. Ecker | |
| | Art Unit | 1645 | |
| | Examiner Name | Jeff Fredman, Ph.D. | |
| Total Number of Pages in This Submission | 4 | Attorney Docket Number | DIBIS-0002US.P3 |

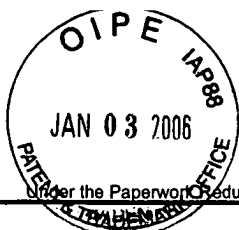
| ENCLOSURES (Check all that apply) | | |
|---|--|---|
| <input type="checkbox"/> Fee Transmittal Form | <input type="checkbox"/> Drawing(s) | <input type="checkbox"/> After Allowance Communication to TC |
| <input type="checkbox"/> Fee Attached | <input type="checkbox"/> Licensing-related Papers | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences |
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| <input type="checkbox"/> After Final | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Proprietary Information |
| <input type="checkbox"/> Affidavits/declaration(s) | <input checked="" type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address | <input type="checkbox"/> Status Letter |
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| <input type="checkbox"/> Express Abandonment Request | <input type="checkbox"/> Request for Refund | Statement Under 3.73(b) |
| <input type="checkbox"/> Information Disclosure Statement | <input type="checkbox"/> CD, Number of CD(s) _____ | Table |
| <input type="checkbox"/> Certified Copy of Priority Document(s) | <input type="checkbox"/> Landscape Table on CD | |
| <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application | Remarks | |
| <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | | |

| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT | | | |
|--|----------------------------|----------|-------|
| Firm Name | Isis Pharmaceuticals, Inc. | | |
| Signature | | | |
| Printed name | Mark P. Roach, Ph.D. | | |
| Date | 12/29/2005 | Reg. No. | L0082 |

| CERTIFICATE OF TRANSMISSION/MAILING | | |
|---|---------------|----------|
| I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: | | |
| Signature | | |
| Typed or printed name | Pamela Grooms | Date |
| | | 12/29/05 |

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PTO/SB/82 (09-04)

Approved for use through 11/30/2005. OMB 0651-0035

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**REVOCATION OF POWER OF
ATTORNEY WITH
NEW POWER OF ATTORNEY
AND
CHANGE OF CORRESPONDENCE ADDRESS**

| | |
|------------------------|-------------|
| Application Number | See Table A |
| Filing Date | See Table A |
| First Named Inventor | See Table A |
| Art Unit | |
| Examiner Name | |
| Attorney Docket Number | See Table A |

I hereby revoke all previous powers of attorney given in the above-identified application.

☐ A Power of Attorney is submitted herewith.

OR

☒ I hereby appoint the practitioners associated with the Customer Number: 58,057

☐ Please change the correspondence address for the above-identified application to:

☒ The address associated with
Customer Number:

58,057

OR

☐ Firm or
Individual Name

Address

City

State

Zip

Country

Telephone

Fax

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)

SIGNATURE of Applicant or Assignee of Record

Signature

Name

Grantland E. Bryce, Esq.

Date

12/28/05

Telephone

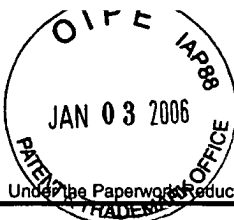
760 931-9200

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☒ *Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Isis Pharmaceuticals, Inc.

Application No./Patent No.: See Table A Filed/Issue Date: See Table A

Entitled: MODIFIED OLIGONUCLEOTIDES FOR USE IN GENE MODULATION

Isis Pharmaceuticals, Inc., a Corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel See Tab, Frame See Tabl, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☐ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Signature

12/28/05

Date

Grantland E. Bryce, J.D.

Printed or Typed Name

760 931-9200

Telephone Number

Vice President and General Counsel

Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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| Serial Number | Filing Date | Title | Reel | Frame | Inventor1 | Docket Number | New Customer Number |
|---------------|-------------|---|-------|-------|-----------------------|-----------------|---------------------|
| 11/233,630 | 09/23/2005 | METHOD FOR RAPID DETECTION AND IDENTIFICATION OF BIOAGENTS | 13482 | 955 | Ecker, David J. | DIBIS-0002US.C7 | 58,057 |
| 10/156,608 | 05/24/2002 | METHOD FOR RAPID DETECTION AND IDENTIFICATION OF BIOAGENTS | 13482 | 955 | Ecker, David J. | DIBIS-0002US.D1 | 58,057 |
| 10/660,997 | 09/12/2003 | METHOD FOR RAPID DETECTION AND IDENTIFICATION OF BIOAGENTS IN EPIDEMIOLOGICAL AND FORENSIC INVESTIGATIONS | 14309 | 594 | Ecker, David J. | DIBIS-0002US.P2 | 58,057 |
| 10/660,122 | 09/11/2003 | METHOD FOR RAPID IDENTIFICATION OF PATHOGENS IN HUMANS AND ANIMALS | 14315 | 162 | Ecker, David J. | DIBIS-0002US.P3 | 58,057 |
| 10/660,996 | 09/12/2003 | METHOD FOR RAPID DETECTION AND IDENTIFICATION OF BIOAGENTS FOR ENVIRONMENTAL AND PRODUCT TESTING | 14309 | 557 | Ecker, David J. | DIBIS-0002US.P4 | 58,057 |
| 10/660,998 | 09/12/2003 | METHOD FOR RAPID FORENSIC ANALYSIS OF MITOCHONDRIAL DNA AND CHARACTERIZATION OF MITOCHONDRIAL DNA HETEROPLASMY | 14310 | 117 | Ecker, David J. | DIBIS-0002US.P5 | 58,057 |
| 09/891,793 | 06/26/2001 | METHODS FOR PROVIDING BACTERIAL BIOAGENT CHARACTERIZING INFORMATION | 12706 | 435 | Ecker, David J. | DIBIS-0003US | 58,057 |
| 10/754,415 | 01/09/2004 | A SECONDARY STRUCTURE DEFINING DATABASE AND METHODS FOR DETERMINING IDENTITY AND GEOGRAPHIC ORIGIN OF AN UNKNOWN BIOAGENT THEREBY | 15473 | 192 | Ecker, David J. | DIBIS-0003US.P2 | 58,057 |
| 10/728,486 | 12/05/2003 | METHODS FOR RAPID IDENTIFICATION OF PATHOGENS IN HUMANS AND ANIMALS | 14708 | 833 | Ecker, David J. | DIBIS-0012US.P1 | 58,057 |
| 10/418,514 | 04/18/2003 | METHODS AND APPARATUS FOR GENETIC EVALUATION | 13876 | 905 | Ecker, David J. | DIBIS-0035US | 58,057 |
| 10/418,514 | 04/18/2003 | METHODS AND APPARATUS FOR GENETIC EVALUATION | 13948 | 968 | Ecker, David J. | DIBIS-0035US | 58,057 |
| 10/844,938 | 05/12/2004 | METHOD FOR RAPID PURIFICATION OF NUCLEIC ACIDS FOR SUBSEQUENT ANALYSIS BY MASS SPECTROMETRY BY SOLUTION CAPTURE | 15143 | 936 | Hofstadler, Steven A. | DIBIS-0041US2 | 58,057 |
| 10/943,344 | 09/17/2004 | METHOD FOR RAPID PURIFICATION OF NUCLEIC ACIDS FOR SUBSEQUENT ANALYSIS BY MASS SPECTROMETRY BY SOLUTION CAPTURE | 15623 | 266 | Hofstadler, Steven A. | DIBIS-0041US2P1 | 58,057 |

